



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Thursday, October 18, 2018
WELL WORK PLUGGING PERMIT
Vertical Plugging

HG ENERGY, LLC
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for 5
47-087-01026-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: 5
Farm Name: LEWIS, ASBURY
U.S. WELL NUMBER: 47-087-01026-00-00
Vertical Plugging
Date Issued: 10/18/2018

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged under the terms of that agreement.

WW-4B
Rev. 2/01

- 1) Date September 5, 2018
- 2) Operator's
Well No. Asbury Lewis # 5
- 3) API Well No. 47-087 - 01026

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil X / Gas ___ / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow X

- 5) Location: Elevation 248' Watershed Spring Creek
District Smithville County Roane Quadrangle Looneyville 7.5'

- 6) Well Operator HG Energy, LLC 7) Designated Agent Diane White
Address 5260 Dupont Road Address 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101

- 8) Oil and Gas Inspector to be notified Name Joe Taylor
Address 1478 Claylick Road
Ripley, WV 25271
- 9) Plugging Contractor Name To Be Determined Upon Approval of Permit
Address _____

10) Work Order: The work order for the manner of plugging this well is as follows:

*See Attached *

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WV Department of
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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector  Date 9-12-18

- 1) Date: September 5, 2018
- 2) Operator's Well Number Asbury Lewis 5
- 3) API Well No: 47 - 087 - 1026
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) WELL TYPE: Oil x Gas _____ Liquid Injection _____ Waste Disposal _____
(If "Gas", Production x Underground Storage _____) Deep _____ Shallow x

5) LOCATION: Elevation: 248' (1050') Watershed: Spring Creek
District: Smithville County: Roane Quadrangle Looneyville 7.5'

6) WELL OPERATOR: HG Energy, LLC 494497948 7) DESIGNATED AGENT Diane White
Address 5260 Dupont Road Address 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101

8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) PLUGGING CONTRACTOR
Name Joe Taylor Name To Be Determined Upon Approval of Permit
Address 1478 Claylick Road Address _____
Ripley, WV 25271 _____

10) WORK ORDER: The work order for the manner of plugging this well is as follows:

TD- 2,127'

Manners of plugging;

- Plug No 1 2040'-1940'
- Free point, cut, & pull 4 1/2" est 1500'
- Plug No 2 1550'-1450'
- Plug No 3 1000'-900'
- Plug No 4 495'-395'
- free point, Cut, & pull 10 3/4" - est 100'
- Plug No 5 150'-0'
- Located at surface

MAY NOT BE ANY 10 3/8" IN WALL.

Recover all possible casing. If casing can not be recovered, perforate for plug placement.

Monument -

- 6" minimum diameter metal pipe
- 30" above surface
- 10' in well below surface
- Sealed with cement
- API identification (1/2") height numbering
- 6% Gel between all plugs

[Handwritten Signature]
9-12-18

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PENNZOIL CO.
~~SOUTHWESTERN PENN. OIL COMPANY~~

NEW WELL REPORT

LEASE No. 60247 240 ACRES WORKING DISTRICT Spencer # 4

Asbury Lewis FARM WELL No. 5 N. 48 E. 39 W.

Smithfield DISTRICT OR TOWNSHIP Roane COUNTY QUAD.

LOCATION MADE 3-11- 19 64

DRILLING COMMENCED 3-26- 19 64

RIG COMMENCED 3-24- 19 64

DRILLING COMPLETED 4-29- 19 64

RIG COMPLETED 3-26-64 19

DEPTH 2127' SAND Big Injun

RIG CONTRACTOR Gerald D. Jones

DRILLING CONTRACTOR Gerald D. Jones

ELEVATION: FLOOR GROUND 248.07

WORK ORDER No. 4-3761-C AFE # B-28-23

FORMATION RECORD

KIND	TOP	BOTTOM	STEEL LINE MEAS.	TEST	KIND	TOP	BOTTOM	STEEL LINE MEAS.	TEST
Conductor		8			Sand	1610	1739		
Sand	8	35			Water		1735		Hole full
Water		30		$\frac{1}{2}$ baler/hr.	Black Lime	1739	1750		
Red Rock	35	48			Oil	1750	1756		Show
Slate	48	65			Sand	1750	1920		
Red Rock	65	128			Big Lime	1920	2040		
Sand	128	140			7" Casing		1987	1987	
Slate	140	148			Keener	2040	2044		
Sand	148	158			Big Injun	2044	2068		
Slate	158	175			Oil & Gas	2044	2065		Show
Sand	175	193			Slate Break	2068	2070		
Red Rock	193	223			Sand	2070	2086		
Slate	223	250			Oil	2085	2086		Show
Red Rock	250	265			Slate	2086	2127		
Slate	265	310							
Sand	310	332			$\frac{1}{2}$ " Casing		2127	2127	
Slate	332	347							
Red Rock	347	390			Total Depth		2127	2127	
10" Casing		445	445						
Slate	390	484							
Sand	484	532							
Slate	532	560							
Red Rock	560	568							
Slate	568	580							
Sand	580	624							
Red Rock	624	765							
Slate	765	780							
Red Rock	780	825							
Slate	825	867							
Red Rock	867	883							
Sand	883	895							
8" Casing		927	927						
Slate	895	934							
Sand	934	1038							
Slate & Lime	1038	1130							
Sand	1130	1240							
Slate	1240	1405							
Sand	1405	1418							
Slate	1418	1440							
Sand	1440	1465							
Slate	1465	1547							
Sand	1547	1557							
Slate	1557	1610							
Water		1673		1 Bailer/hr.					

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NEW WELL REPORT - CONT'D.

INITIAL TORPEDO RECORD	CASING AND TUBING RECORD						
	SIZE	PUT IN WELL			PULLED OUT		
		TRANSFER NO.	FEET	INCH	TRANSFER NO.	FEET	INCH
Date of Shot	10"		587	--	587	--	
Name of Torpedo Co.	8 1/2"		1102	--	1102	--	
No. of Quarts	5 1/2"	WV 3901	2222	3			
Length of Shell	2" lbg.	Plosser					
Diameter of Shell		Tr./ 175	2236	--			
Length of Anchor							
Top of Shot							
Bottom of Shot							
Feet of Fluid in Hole When Shot							
Results:							


INITIAL PRODUCTION FIRST 24 HOURS	KIND	SIZE	DEPTH SET	DATE SET
Open Flow ⁵ /10ths Water in <u>1/8</u> Inch	Steel Shoe	5 1/2" 1 1/4"	2190'	8-27-62
----- /10ths Merc. in ----- Inch				
Volume <u>322 Cuft.</u> Cu. Ft.				
Rock Pressure <u>None</u> lbs. (No Test) hrs.				
Oil <u>1</u> bbls., First 24 hrs.				

ACIDIZATION OR FRACTURING RECORD	
DATE WELL ACIDIZED	September 5, 1962
DATE WELL FRACTURED	DoWell
NAME OF COMPANY	
(List below materials used in Acidizing or Fracturing, i.e., Sand, Crude Oil, Gasoline, Water, Kerosene, Mothballs, Acid, etc., giving gallons, barrels and pounds).	
Used:	900 bbl. Water
Used:	200 Gal. Dowell X Service
Used:	200 Gal. Regular Mud Acid
Used:	150# J-96
Used:	300# J-6h
Used:	30 Gal. Deterger
Used:	40 Gal. Proflo-C
Used:	44,000# Sand
BREAKDOWN PRESSURE	<u>1600#</u>
PUMPING PRESSURE	<u>1600 to 2800#</u>
AVERAGE PUMPING RATE/MINUTE	<u>26.8 bbls.</u>
PUMPING TIME	<u>33 minutes</u>
RESULT AFTER TREATMENT	GAS <u>50,000</u> CU. FT. OIL <u>20/day</u> BBLS.
ROCK PRESSURE AFTER TREATMENT	<u>180</u> LBS.

CASING CEMENTED			
5 1/2"	SIZE	2190	DATE 8-27-62
	SIZE		DATE
	SIZE		DATE
Used In Cementing 5 1/2" Casing:			
35 Bags - H. E. Cement			
4 Bags - Aquagel			

REMARKS: Well Filled with Stone & Mud 2257 - 2225
Well Filled with Cal Seal 2225 - 2220

This well was drilled according to rule 11, under section 13, of Article 4, Chapter 22 of the Code of the Department of Mines, Oil and Gas Division.

APPROVED

 SUPERINTENDENT

WW-4A
Revised 6-07

1) Date: September 5, 2018
2) Operator's Well Number
Asbury Lewis # 5

3) API Well No.: 47 - 087 - 01026

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

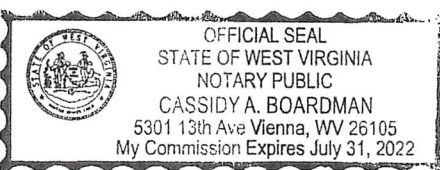
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>David F. Bailey</u>	Name <u>NA</u>
Address <u>P. O. Box 445</u>	Address _____
<u>Spencer, WV 25276</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>NA</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Joe Taylor</u>	(c) Coal Lessee with Declaration
Address <u>1478 Claylick Road</u>	Name <u>NA</u>
<u>Ripley, WV 25271</u>	Address _____
Telephone <u>304-380-7469</u>	_____

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator	<u>HG Energy, LLC</u>	RECEIVED
By:	<u>Diane White</u> <i>Diane White</i>	Office of Oil and Gas
Its:	<u>Agent</u>	SEP 18 2018
Address	<u>5260 Dupont Road</u>	
	<u>Parkersburg, WV 26101</u>	WV Department of
Telephone	<u>304-420-1119</u>	Environmental Protection

Subscribed and sworn before me this 5th day of September, 2018
Cassidy A. Boardman Notary Public
My Commission Expires 7/31/2022

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

WW-9
(5/16)

API Number 47 - 087 - 01026
Operator's Well No. Asbury Lewis 5

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy, LLC OP Code 494497948

Watershed (HUC 10) Spring Creek Quadrangle Looneyville 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: Fluids encountered while plugging well

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 20 mil

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: No

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA

-If oil based, what type? Synthetic, petroleum, etc. NA

Additives to be used in drilling medium? NA

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Remove offsite

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

-Landfill or offsite name/permit number? Will be determined at time of offsite disposal

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Diane White

Company Official (Typed Name) Diane White

Company Official Title Agent

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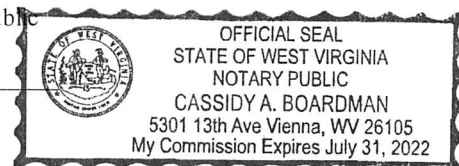
SEP 18 2018

Subscribed and sworn before me this 5th day of September, 2018

WV Department of Environmental Protection

Cassidy A Boardman Notary Public

My commission expires 7/31/2022



Proposed Revegetation Treatment: Acres Disturbed 1.1 acres Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	<u>40</u>	Tall Fescue	<u>40</u>
Ladino Clover	<u>5</u>	Ladino Clover	<u>5</u>

****Sediment Control Will Be Maintained At All Times****

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Joe Taylor

Comments: _____



Title: GOG Inspector Date: 9-12-18

Field Reviewed? Yes No

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47-087-01026P

Reclamation Plan For:

Asbury Lewis No. 5

47-087-1026



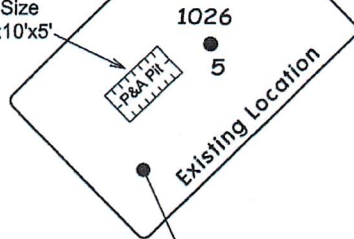
NOTE
REFER TO THE WVDEP
EROSION AND SEDIMENT CONTROL
FIELD MANUAL VER. MAY 2012 FOR
BMPs CONTROLLING EROSION AND
SEDIMENT FROM SOIL-DISTURBING
OPERATIONS.

Approximately 0.4 mi. of
Existing Access Road

Asbury Lewis Lease

David F. Bailey
- Surface

Pit Size
~20'x10'x5'



NOTE:
Location is existing. Only minimal
earthwork will be required to
P&A existing well. Any disturbed
areas will be revegetated as
per the attached WW-9.



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OCT 16 2018

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Environmental Protection

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OCT 16 2018

WV Department of
Environmental Protection

Notes:

- REQUESTED PERMIT IS FOR PLUGGING AN EXISTING WELL
- ALL ACCESS ROADS ARE EXISTING AND WILL BE UPGRADED IN ORDER TO ACCOMODATE WELL WORK EQUIPMENT AND THEN WILL BE RECLAIMED TO WVDEP STANDARDS.
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- LOCATION OF DRILL PIT MAY BE CHANGED BASED ON AS-BUILT CONSIDERATIONS.
- DRAWING NOT TO SCALE.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
GROUNDWATER PROTECTION PLAN

Operator Name: HG Energy, LLC

Watershed (HUC 10): Spring Creek Quad: Looneyville 7.5'

Farm Name: _____

- 1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

NA

- 2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

NA

- 3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

NA

- 4. Summarize all activities at your facility that are already regulated for groundwater protection.

NA

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- 5. Discuss any existing groundwater quality data for your facility or an adjacent property.

NA

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

NA

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

NA

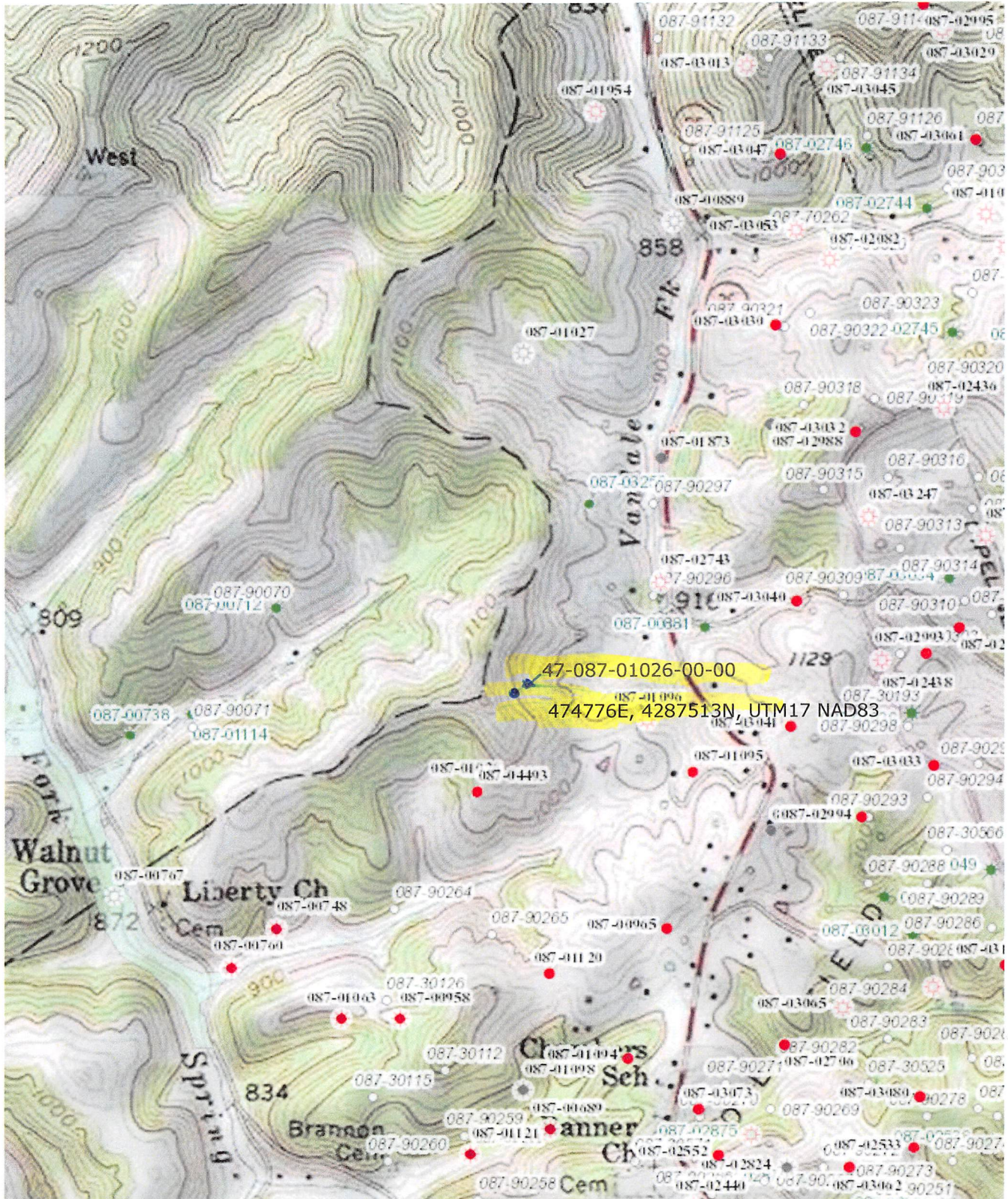
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

NA

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Signature: Diane White

Date: 9-5-2018



SUBJECT WELL
Asbury Lewis No.5
47-087-1026



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SEP 18 2018

Section of
Looneyville 7.5' Quadrangle
WV Department of
Environmental Protection

SCALE 1"=1000'

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil & Gas
WELL LOCATION FORM: GPS

API: 47- 087 - 1026 WELL NO: 5

FARM NAME: Asbury Lewis No.5

RESPONSIBLE PARTY NAME: H.G. Energy, LLC

COUNTY: Roane DISTRICT: Smithfield

QUADRANGLE: Looneyville 7.5'

SURFACE OWNER: David F. Bailey

ROYALTY OWNER: HG Energy, LLC

UTM GPS NORTHING: 4,287,513 (NAD 83)

UTM GPS EASTING: 474,776 (NAD 83) GPS ELEVATION: (1050')
313 m.

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil & Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone:17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) - meters.
2. Accuracy to Datum - 3.05 meters
3. Data Collection Method:

Survey Grade GPS	<input type="checkbox"/>	Post Processed Differential	<input type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>
Mapping Grade GPS	<input checked="" type="checkbox"/>	Post Processed Differential	<input checked="" type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>
4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Diane White
Diane C. White

Designated Agent
Title

8/17/2018
Date

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